

CLAIMS

1. A system for manufacturing a personal golf putter, comprising a putting surface with at least one hole into which a golfer puts balls; an initial putter with which the golfer hits the balls so as to put the balls into the hole; sensing means for sensing parameters of the initial putter during hitting the balls by the golfer to putt the balls into the hole; data collecting and processing means for collecting and processing data corresponding to said sensed parameters; transmitting means for transmitting said data corresponding to the sensed parameters; computing means for receiving and processing said data; and design and manufacturing means for receiving the data from said computing means, determining final parameters of a personal putter based on said data, and making the personal putter with said final parameters; and said sensing means, said collecting means, and said transmitting means being incorporated in said initial putter.

2. A system as defined in claim 1, wherein said computing means is formed as a computer which is remote from said putting surface, and said initial putter

3. A system as defined in claim 1, wherein said data collecting and processing means include a microprocessor connected with electrical signals amplifying means and collecting data from said sensing means to configure said data.

4. A system as defined in claim 1, wherein said computing means is selected from the group consisting of a remote receiving computer, a pocket personal computer with compatible signal receiving means, and a laptop computer with wireless receiving means.

5. A system as defined in claim 1; and further comprising a display unit selected from the group consisting of a display unit connected to said computing means and a display unit formed as an integral part of a said computing means.

6. A system as defined in claim 5, wherein said display unit is formed so as to display an information selected from the group consisting of a position of a putter handle, position of putter head, lie and loft angles with text identifying a

deviation in degrees, a putter path during a swing, an acceleration and a deceleration of a putter head alongside of a putter path, a text message with details related to a swing in real time, in combinations thereof.

7. A system as defined in claim 5, wherein said display is provided with radio buttons for computer commands selected from the group consisting save, recall, and replay.



8. A system as defined in claim 1, wherein said computing means is connected to an internet network.

9. A system as defined in claim 1, wherein said transmitting means is formed so as to transmit information selected from the group consisting of lie and loft angles, a weight of putter head, a weight of a putter shaft, a location of a center of gravity of a putter head, a putter face angle, a shaft lie angle, and offset position, an identification of a golfer who hits the ball with a golf putter, and combinations thereof.

10. A system as defined in claim 9, wherein said initial putter has a handle and a head, said sensing means including acceleration/deceleration measuring means, one part of putter path measuring means, and rotation measuring means located in said head, and also including lie/loft angles measuring means and another part of the putter path measuring means located in said handle.

11. A system as defined in claim 10, wherein said data collecting and processing means and said transmitting means are located in said handle.

12. A system as defined in claim 1; and further comprising a training putter which is identical with said final personal putter, and in addition has said sensing means, said data collecting and processing means, and said transmitting means.

13. A system as defined in claim 1; and further comprising a switch actuatable by a user and switching operation of electronic system of said initial putter between a plurality of modes.

14. A system as defined in claim 13; and further comprising indicating means operative for visually indicating the modes to which the electronic system of said initial putter is switched.

15. A system as defined in claim 13; and further comprising indicating means operative for audio indicating the modes to which the electronic system of said initial putter is switched.

16. A method for manufacturing a personal golf putter, comprising providing a putting surface with at least one hole into which a golfer putts balls; providing an initial putter with which the golfer hits the balls so as to putt the balls into the hole; sensing parameters of the initial putter during hitting the balls by the golfer to putt the balls into the hole; collecting and processing data corresponding

to the sensed parameters by data collecting and processing means; transmitting data corresponding to the sensed parameters by transmitting means ; receiving and processing said data by computing means; receiving the data from said computing means, determining parameters of a personal putter based on said data, and making the personal putter with said parameters by design and manufacturing means; and incorporating said sensing means, said data collecting and processing means and said transmitting means being incorporated in said putter.

17. A method as defined in claim 16; and further comprising forming said computing means is formed as a computer which is remote from said putting surface.

18. A method as defined in claim 10; and further comprising providing said data collecting and processing means with a microprocessor connected with and collecting the data from said sensing means to configure said data.

19. A method as defined in claim 16; and further comprising selecting said computing means from the group consisting of a remote receiving computer, a pocket personal computer with compatible signal receiving means, and a laptop computer with wireless receiving means.

20. A method as defined in claim 16; and further comprising providing a display unit selected from the group consisting of a display unit connected to said computing means and a display unit formed as an integral part of a said computing means.

21. A method as defined in claim 20; and further comprising forming said display unit so as to display an information selected from the group consisting of a position of a putter handle, position of putter head, lie and loft angles with text identifying a deviation in degrees, a putter path during a swing, and acceleration and a deceleration of a putter head alongside of a putter path, a text message with details related to a swing in real time, in combinations thereof.

22. A method as defined in claim 20; and further comprising providing said display with radio buttons for computer commands selected from the group consisting save, recall, and replay.

23. A method as defined in claim 16, and further comprising connecting said computing means to an internet network.

24. A method as defined in claim 16; and further comprising providing said transmitting means so as to transmit information selected from the group consisting of lie and loft angles, a weight of putter head, a weight of a putter shaft, a location of a center of gravity of a putter head, a putter face angle, a shaft lie angle, and offset position, an identification of a golfer who hits the ball with a golf putter, and combinations thereof.

25. A method as defined in claim 16; and further comprising providing said initial putter with a handle and a head; and providing said sensing means with acceleration/deceleration, measuring means, one part of putter path measuring means, and rotation measuring means located in said head, and also with lie/loft angles measuring and another part of the putter path measuring means located in said handle.

26. A method as defined in claim 16; and further comprising arranging said data collecting and processing means and said transmitting means in said handle.

27. A method as defined in claim 16; and further comprising providing a training putter which is identical with said final personal putter, and in addition has said sensing means, said data collecting and processing means, and said transmitting means.

28. A method as defined in claim 16; and further comprising providing a switch actuable by a user and switching operation of electronic systems of said initial putter between a plurality of nodes.

29. A method as defined in claim 28; and further comprising providing indicating means operative for visually indicating the modes to which the electronic system of said initial putter is switched.

30. A method as defined in claim 28; and further comprising providing indicating means operative for audio indicating the modes to which the electronic system of said initial putter is switched.

31. A system as defined in claim 1; and further comprising means operative for providing voice instructional commands from the group consisting of a displayed information connected to said computing means and a display unit formed as an integral part said computing means.

32. A method as defined in claim 16; and further comprising providing a voice instructional commands from the group consisting of a displayed information connected to said computing means and a display unit formed as an integral part of said computing means.